

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: HALO

Report Number: P1431939

Luminaire Tested: **HSLUNVMW-Cut-Off-3000K**

Issue Date: 3/16/2026



Test Information

Test Method: LM-79-08
Report Number: P1431939
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA ($\text{ÆÖí}'' \text{¿î½ØÖ}^{\text{!}} \cdot \text{§}^{\circ} \times \text{É}\ll$)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2026
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: HSLUNVMW-Cut-Off-3000K
Description: Cutoff

Light Source:
Ballast/Driver: ELECTRONIC DRIVER

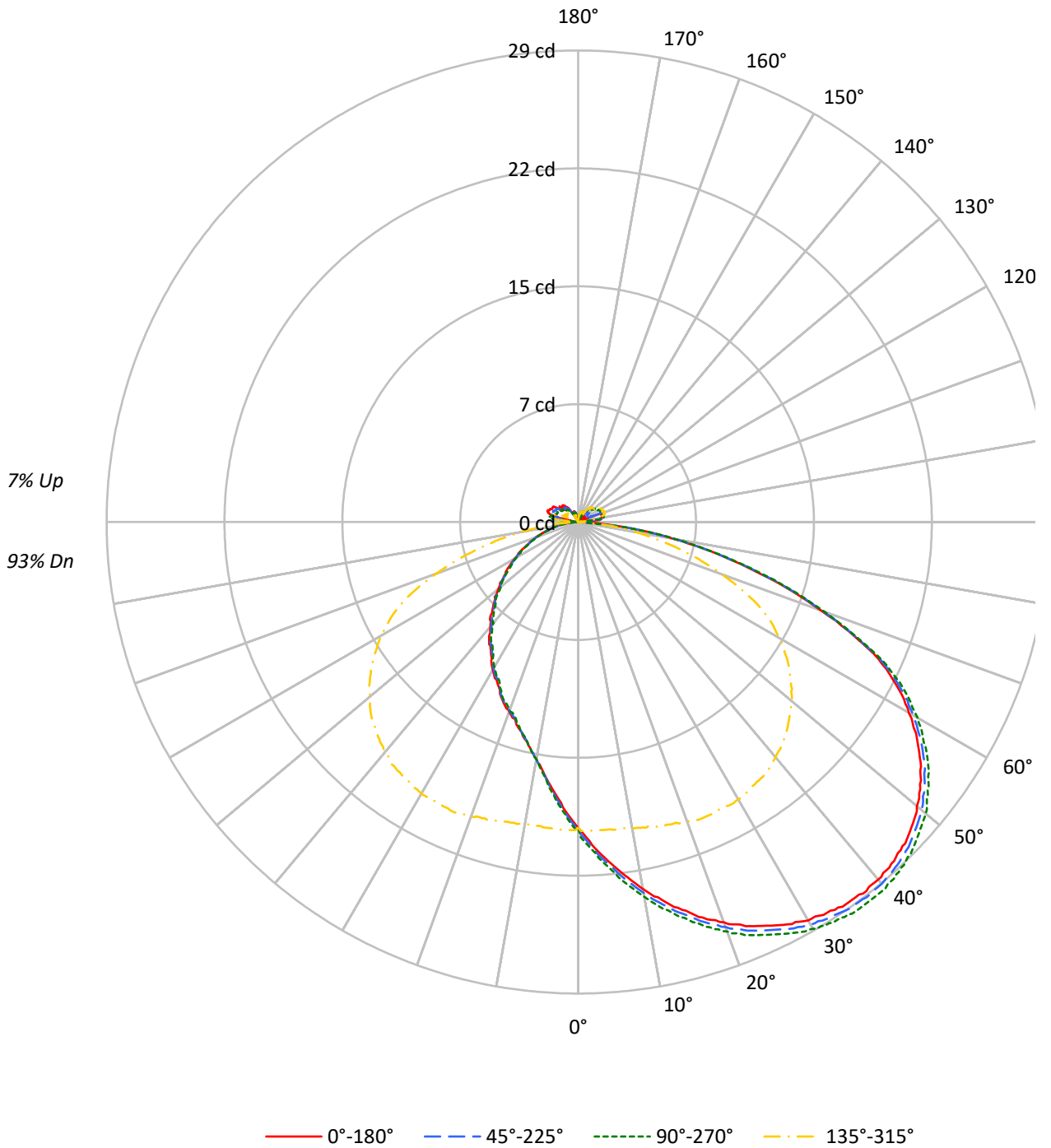
Summary

Lumens per Lamp: 76.38 (1 lamp)
Luminaire Lumens: 82.2 lumens
Efficiency: 107.6%
Efficacy: 21.6 lumens/watt
Spacing Criteria (0/90/45): 1.54 / 1.55 / 1.65
Luminous Opening: Rectangular (W 0.27' x L: 0.43' x H: 0')
CIE Type: Direct

Input Watts (W): 3.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: >0.9
Total Harmonic Distortion (THDi): <20
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: P1431939
CATALOG NUMBER: HSLUNVMW-Cut-Off-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P1431939
 CATALOG NUMBER: HSLUNVMW-Cut-Off-3000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

	RF	20		20		20		20		20		20		20		20		
	RC	80		70		50		30		10		50		30		10		
	RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
	RCR																	
0°	0	126	126	126	126	122	122	122	122	115	115	115	109	109	109	103	103	103
	1	114	109	104	100	111	106	101	97	100	96	93	94	91	89	89	87	85
	2	103	94	86	79	99	91	84	78	86	80	75	81	76	72	77	73	69
	3	93	81	72	64	90	79	70	63	74	67	61	70	64	59	67	62	57
	4	85	71	61	53	82	69	60	53	65	57	51	62	55	50	59	53	48
	5	77	63	53	45	75	61	52	45	58	50	43	55	48	42	52	46	41
	6	71	56	46	39	68	55	45	38	52	44	37	49	42	36	47	40	35
	7	66	50	41	34	63	49	40	33	47	39	33	45	37	32	42	36	31
	8	61	46	36	30	59	45	36	29	43	34	29	41	33	28	39	32	27
	9	57	42	33	26	55	41	32	26	39	31	26	37	30	25	36	29	24
	10	53	38	30	24	51	37	29	23	36	28	23	34	27	22	33	27	22

110°

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	1742	1742	1742	1742
5°	1944	1981	1554	1572
10°	2155	2202	1393	1393
15°	2370	2418	1286	1286
20°	2584	2643	1223	1213
25°	2802	2863	1166	1155
30°	3028	3093	1124	1102
35°	3247	3326	1063	1041
40°	3472	3557	1016	980
45°	3696	3788	970	944
50°	3921	4022	923	894
55°	4152	4249	872	856
60°	4356	4467	834	816
65°	4517	4605	789	767
70°	4308	4362	759	732
75°	3867	3939	680	680
80°	3202	3255	640	587
85°	1914	319	425	532



TEST NUMBER: P1431939

CATALOG NUMBER: HSLUNVMW-Cut-Off-3000K

ZONAL LUMENS:

	Zone	Lumens	% Fixture	% Lamp
20	0°-10°	1.8	2.2	2.4
0	10°-20°	5.4	6.6	7.1
	20°-30°	9.0	11.0	11.8
100	30°-40°	12.0	14.6	15.7
82	40°-50°	13.8	16.8	18.1
66	50°-60°	14.0	17.0	18.3
54	60°-70°	11.9	14.5	15.6
45	70°-80°	6.8	8.3	8.9
38	80°-90°	1.4	1.7	1.8
33	90°-100°	0.6	0.8	0.8
29	100°-110°	1.6	2.0	2.1
25	110°-120°	1.3	1.6	1.7
22	120°-130°	1.0	1.2	1.3
20	130°-140°	0.8	0.9	1.0
	140°-150°	0.4	0.5	0.5
	150°-160°	0.1	0.2	0.2
	160°-170°	0.1	0.2	0.2
	170°-180°	0.0	0.0	0.0
	0°-30°	16.3	19.8	21.3
	0°-40°	28.3	34.5	37.1
	0°-60°	56.1	68.3	73.5
	0°-90°	76.2	92.8	99.8
	90°-120°	3.6	4.3	4.7
	90°-150°	5.7	7.0	7.5
	90°-180°	6.0	7.3	7.9
	0°-180°	82.2	100.0	107.6

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°
0°	19	19	19	19	19
5°	21	21	17	17	21
15°	25	25	13	13	25
25°	27	28	11	11	27
35°	29	29	9	9	29
45°	28	29	7	7	28
55°	26	26	5	5	26
65°	21	21	4	4	21
75°	11	11	2	2	11
85°	2	0	0	0	2
90°	0	0	0	0	0
95°	1	0	0	0	1
105°	2	2	2	2	2
115°	0	2	2	1	0
125°	0	1	1	1	0
135°	0	1	1	1	0
145°	0	1	1	1	0
155°	0	0	0	0	0
165°	0	1	1	0	0
175°	0	0	0	0	0
180°	0	0	0	0	0



TEST NUMBER: P1431939
 CATALOG NUMBER: HSLUNVMW-Cut-Off-3000K

CANDELA DISTRIBUTION (FULL):

Flux		0°	90°	180°	270°	360°
	0°	18.8	18.8	18.8	18.8	18.8
2	0.5°	19.0	19.4	18.6	18.9	19.0
7	1°	19.2	19.6	18.4	18.7	19.2
13	1.5°	19.4	19.8	18.2	18.5	19.4
18	2°	19.6	20.0	18.0	18.3	19.6
22	2.5°	19.9	20.2	17.8	18.0	19.9
23	3°	20.1	20.4	17.6	17.8	20.1
20	3.5°	20.3	20.7	17.3	17.6	20.3
11	4°	20.5	20.9	17.1	17.4	20.5
2	4.5°	20.7	21.1	16.9	17.2	20.7
0	5°	20.9	21.3	16.7	16.9	20.9
1	5.5°	21.1	21.5	16.5	16.7	21.1
2	6°	21.3	21.7	16.3	16.5	21.3
1	6.5°	21.5	22.0	16.1	16.3	21.5
0	7°	21.7	22.2	15.9	16.0	21.7
0	7.5°	21.9	22.4	15.7	15.8	21.9
0	8°	22.1	22.6	15.5	15.6	22.1
0	8.5°	22.3	22.8	15.3	15.4	22.3
0	9°	22.5	23.0	15.1	15.2	22.5
0	9.5°	22.7	23.2	15.0	15.0	22.7
	10°	22.9	23.4	14.8	14.8	22.9
	10.5°	23.1	23.6	14.7	14.7	23.1
	11°	23.3	23.8	14.5	14.5	23.3
	11.5°	23.5	24.0	14.4	14.4	23.5
	12°	23.6	24.2	14.2	14.2	23.6
	12.5°	23.8	24.4	14.1	14.1	23.8
	13°	24.0	24.5	13.9	13.9	24.0
	13.5°	24.2	24.7	13.8	13.7	24.2
	14°	24.4	24.9	13.7	13.6	24.4
	14.5°	24.5	25.1	13.6	13.5	24.5
	15°	24.7	25.2	13.4	13.4	24.7
	15.5°	24.8	25.4	13.3	13.3	24.8
	16°	25.0	25.6	13.2	13.1	25.0
	16.5°	25.2	25.7	13.1	13.0	25.2
	17°	25.4	25.9	13.0	12.9	25.4
	17.5°	25.5	26.1	12.8	12.7	25.5
	18°	25.7	26.2	12.7	12.6	25.7
	18.5°	25.8	26.4	12.7	12.5	25.8
	19°	25.9	26.5	12.6	12.4	25.9
	19.5°	26.1	26.7	12.5	12.4	26.1
	20°	26.2	26.8	12.4	12.3	26.2
	20.5°	26.4	27.0	12.3	12.2	26.4
	21°	26.5	27.1	12.3	12.1	26.5
	21.5°	26.6	27.2	12.2	12.0	26.6
	22°	26.7	27.4	12.1	12.0	26.7

TEST NUMBER: P1431939

CATALOG NUMBER: HSLUNVMW-Cut-Off-3000K

CANDELA DISTRIBUTION (continued):

	0°	90°	180°	270°	360°
22.5°	26.9	27.5	12.0	11.9	26.9
23°	27.0	27.6	11.9	11.8	27.0
23.5°	27.1	27.7	11.8	11.7	27.1
24°	27.2	27.8	11.7	11.6	27.2
24.5°	27.3	27.9	11.6	11.4	27.3
25°	27.4	28.0	11.4	11.3	27.4
25.5°	27.5	28.1	11.3	11.2	27.5
26°	27.6	28.2	11.2	11.0	27.6
26.5°	27.7	28.3	11.1	10.9	27.7
27°	27.8	28.4	11.0	10.8	27.8
27.5°	27.9	28.5	10.9	10.7	27.9
28°	28.0	28.6	10.9	10.7	28.0
28.5°	28.0	28.7	10.8	10.6	28.0
29°	28.1	28.8	10.7	10.5	28.1
29.5°	28.2	28.8	10.6	10.4	28.2
30°	28.3	28.9	10.5	10.3	28.3
30.5°	28.3	29.0	10.4	10.2	28.3
31°	28.3	29.0	10.3	10.1	28.3
31.5°	28.4	29.1	10.2	10.0	28.4
32°	28.5	29.1	10.1	9.9	28.5
32.5°	28.5	29.2	9.9	9.7	28.5
33°	28.5	29.2	9.8	9.6	28.5
33.5°	28.6	29.2	9.7	9.5	28.6
34°	28.6	29.3	9.6	9.4	28.6
34.5°	28.7	29.3	9.5	9.3	28.7
35°	28.7	29.4	9.4	9.2	28.7
35.5°	28.7	29.4	9.3	9.1	28.7
36°	28.7	29.4	9.3	9.1	28.7
36.5°	28.7	29.4	9.2	9.0	28.7
37°	28.7	29.4	9.1	8.9	28.7
37.5°	28.8	29.4	9.0	8.8	28.8
38°	28.8	29.4	8.9	8.6	28.8
38.5°	28.7	29.4	8.7	8.5	28.7
39°	28.7	29.4	8.6	8.4	28.7
39.5°	28.7	29.4	8.5	8.3	28.7
40°	28.7	29.4	8.4	8.1	28.7
40.5°	28.7	29.3	8.3	8.1	28.7
41°	28.6	29.3	8.2	8.0	28.6
41.5°	28.6	29.3	8.1	7.9	28.6
42°	28.6	29.2	8.1	7.8	28.6
42.5°	28.5	29.2	8.0	7.7	28.5
43°	28.5	29.1	7.9	7.6	28.5
43.5°	28.4	29.1	7.7	7.5	28.4
44°	28.3	29.0	7.6	7.4	28.3
44.5°	28.3	28.9	7.5	7.3	28.3

TEST NUMBER: P1431939

CATALOG NUMBER: HSLUNVMW-Cut-Off-3000K

CANDELA DISTRIBUTION (continued):

	0°	90°	180°	270°	360°
45°	28.2	28.9	7.4	7.2	28.2
45.5°	28.2	28.8	7.3	7.1	28.2
46°	28.1	28.7	7.2	7.0	28.1
46.5°	28.0	28.6	7.1	7.0	28.0
47°	27.9	28.5	7.0	6.9	27.9
47.5°	27.8	28.4	6.9	6.8	27.8
48°	27.7	28.3	6.9	6.7	27.7
48.5°	27.6	28.2	6.7	6.6	27.6
49°	27.5	28.1	6.6	6.4	27.5
49.5°	27.4	28.0	6.5	6.3	27.4
50°	27.2	27.9	6.4	6.2	27.2
50.5°	27.1	27.8	6.3	6.1	27.1
51°	27.0	27.6	6.2	6.1	27.0
51.5°	26.8	27.4	6.1	6.0	26.8
52°	26.7	27.3	6.1	5.9	26.7
52.5°	26.5	27.1	5.9	5.8	26.5
53°	26.4	27.0	5.8	5.7	26.4
53.5°	26.2	26.8	5.7	5.6	26.2
54°	26.0	26.6	5.6	5.5	26.0
54.5°	25.9	26.5	5.5	5.4	25.9
55°	25.7	26.3	5.4	5.3	25.7
55.5°	25.5	26.1	5.4	5.2	25.5
56°	25.3	25.9	5.3	5.1	25.3
56.5°	25.1	25.7	5.2	5.0	25.1
57°	24.9	25.5	5.1	4.9	24.9
57.5°	24.7	25.2	5.0	4.8	24.7
58°	24.5	25.0	4.9	4.7	24.5
58.5°	24.2	24.8	4.8	4.7	24.2
59°	24.0	24.6	4.7	4.6	24.0
59.5°	23.8	24.3	4.6	4.5	23.8
60°	23.5	24.1	4.5	4.4	23.5
60.5°	23.3	23.8	4.4	4.3	23.3
61°	23.0	23.5	4.3	4.2	23.0
61.5°	22.8	23.3	4.2	4.1	22.8
62°	22.5	23.0	4.2	4.0	22.5
62.5°	22.2	22.7	4.1	4.0	22.2
63°	21.9	22.4	4.0	3.9	21.9
63.5°	21.6	22.1	3.9	3.8	21.6
64°	21.3	21.7	3.8	3.7	21.3
64.5°	21.0	21.3	3.7	3.6	21.0
65°	20.6	21.0	3.6	3.5	20.6
65.5°	20.3	20.6	3.5	3.4	20.3
66°	19.9	20.1	3.4	3.3	19.9
66.5°	19.4	19.6	3.3	3.2	19.4
67°	18.9	19.1	3.2	3.2	18.9

TEST NUMBER: P1431939

CATALOG NUMBER: HSLUNVMW-Cut-Off-3000K

CANDELA DISTRIBUTION (continued):

	0°	90°	180°	270°	360°
67.5°	18.4	18.6	3.2	3.1	18.4
68°	18.0	18.1	3.1	3.0	18.0
68.5°	17.4	17.6	3.0	2.9	17.4
69°	17.0	17.1	2.9	2.8	17.0
69.5°	16.4	16.6	2.8	2.8	16.4
70°	15.9	16.1	2.8	2.7	15.9
70.5°	15.4	15.6	2.7	2.6	15.4
71°	14.9	15.1	2.6	2.5	14.9
71.5°	14.4	14.6	2.5	2.4	14.4
72°	13.9	14.1	2.4	2.4	13.9
72.5°	13.4	13.6	2.3	2.3	13.4
73°	12.9	13.1	2.3	2.2	12.9
73.5°	12.4	12.6	2.2	2.1	12.4
74°	11.8	12.0	2.1	2.0	11.8
74.5°	11.3	11.5	2.0	1.9	11.3
75°	10.8	11.0	1.9	1.9	10.8
75.5°	10.3	10.5	1.9	1.8	10.3
76°	9.8	10.0	1.8	1.7	9.8
76.5°	9.3	9.5	1.7	1.6	9.3
77°	8.9	9.0	1.6	1.6	8.9
77.5°	8.4	8.5	1.5	1.5	8.4
78°	7.9	8.0	1.5	1.4	7.9
78.5°	7.4	7.6	1.4	1.3	7.4
79°	6.9	7.1	1.3	1.3	6.9
79.5°	6.5	6.6	1.3	1.2	6.5
80°	6.0	6.1	1.2	1.1	6.0
80.5°	5.6	5.7	1.1	1.1	5.6
81°	5.1	5.2	1.0	1.0	5.1
81.5°	4.7	4.8	1.0	0.9	4.7
82°	4.3	4.3	0.9	0.9	4.3
82.5°	3.8	3.9	0.8	0.8	3.8
83°	3.4	3.5	0.8	0.7	3.4
83.5°	3.0	3.0	0.7	0.7	3.0
84°	2.6	2.5	0.6	0.6	2.6
84.5°	2.2	1.3	0.5	0.5	2.2
85°	1.8	0.3	0.4	0.5	1.8
85.5°	1.5	0.0	0.4	0.4	1.5
86°	1.2	0.0	0.3	0.4	1.2
86.5°	0.8	0.0	0.3	0.3	0.8
87°	0.6	0.0	0.3	0.3	0.6
87.5°	0.4	0.0	0.2	0.2	0.4
88°	0.3	0.0	0.1	0.2	0.3
88.5°	0.2	0.1	0.0	0.3	0.2
89°	0.1	0.1	0.0	0.0	0.1
89.5°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1431939

CATALOG NUMBER: HSLUNVMW-Cut-Off-3000K

CANDELA DISTRIBUTION (continued):

	0°	90°	180°	270°	360°
90°	0.0	0.0	0.0	0.0	0.0
90.5°	0.0	0.0	0.0	0.0	0.0
91°	0.0	0.0	0.0	0.0	0.0
91.5°	0.0	0.0	0.0	0.0	0.0
92°	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0
93°	0.0	0.0	0.0	0.0	0.0
93.5°	0.0	0.0	0.0	0.0	0.0
94°	0.0	0.0	0.0	0.0	0.0
94.5°	1.0	0.0	0.1	0.0	1.0
95°	1.3	0.0	0.4	0.0	1.3
95.5°	1.3	0.0	0.4	0.0	1.3
96°	1.3	0.0	0.3	0.3	1.3
96.5°	1.4	0.3	0.3	1.2	1.4
97°	1.4	1.3	0.3	1.5	1.4
97.5°	1.4	1.5	0.3	1.7	1.4
98°	1.4	1.5	0.3	1.7	1.4
98.5°	1.4	1.5	0.3	1.7	1.4
99°	1.4	1.5	0.3	1.8	1.4
99.5°	1.4	1.5	0.4	1.8	1.4
100°	1.5	1.6	0.4	1.8	1.5
100.5°	1.5	1.6	0.5	1.8	1.5
101°	1.5	1.6	0.5	1.7	1.5
101.5°	1.5	1.6	0.6	1.7	1.5
102°	1.5	1.6	0.8	1.7	1.5
102.5°	1.5	1.6	1.0	1.7	1.5
103°	1.5	1.6	1.2	1.7	1.5
103.5°	1.5	1.6	1.3	1.7	1.5
104°	1.5	1.6	1.5	1.7	1.5
104.5°	1.5	1.6	1.6	1.7	1.5
105°	1.5	1.6	1.7	1.6	1.5
105.5°	1.5	1.6	1.8	1.6	1.5
106°	1.5	1.5	1.8	1.6	1.5
106.5°	1.5	1.5	1.9	1.6	1.5
107°	1.5	1.5	1.9	1.5	1.5
107.5°	1.5	1.5	1.9	1.5	1.5
108°	1.5	1.5	1.9	1.5	1.5
108.5°	1.5	1.5	2.0	1.5	1.5
109°	1.5	1.5	2.0	1.5	1.5
109.5°	1.5	1.5	2.0	1.5	1.5
110°	1.5	1.5	2.0	1.5	1.5
110.5°	1.5	1.5	2.0	1.4	1.5
111°	1.5	1.5	2.0	1.4	1.5
111.5°	1.4	1.5	2.0	1.4	1.4
112°	0.7	1.5	1.9	1.4	0.7

TEST NUMBER: P1431939

CATALOG NUMBER: HSLUNVMW-Cut-Off-3000K

CANDELA DISTRIBUTION (continued):

	0°	90°	180°	270°	360°
112.5°	0.0	1.5	1.9	1.4	0.0
113°	0.0	1.5	1.9	1.4	0.0
113.5°	0.0	1.5	1.9	1.4	0.0
114°	0.3	1.5	1.9	1.4	0.3
114.5°	0.5	1.5	1.9	1.4	0.5
115°	0.5	1.5	1.9	1.4	0.5
115.5°	0.5	1.5	1.9	1.4	0.5
116°	0.5	1.5	1.8	1.4	0.5
116.5°	0.5	1.5	1.8	1.4	0.5
117°	0.5	1.5	1.8	1.3	0.5
117.5°	0.5	1.5	1.8	1.3	0.5
118°	0.5	1.5	1.8	1.3	0.5
118.5°	0.5	1.5	1.8	1.3	0.5
119°	0.5	1.5	1.8	1.3	0.5
119.5°	0.5	1.5	1.8	1.3	0.5
120°	0.5	1.5	1.8	1.3	0.5
120.5°	0.5	1.5	1.8	1.3	0.5
121°	0.5	1.4	1.8	1.3	0.5
121.5°	0.5	1.4	1.8	1.3	0.5
122°	0.5	1.4	1.8	1.3	0.5
122.5°	0.5	1.4	1.7	1.3	0.5
123°	0.5	1.4	1.7	1.3	0.5
123.5°	0.3	1.4	1.6	1.3	0.3
124°	0.0	1.4	1.5	1.2	0.0
124.5°	0.0	1.4	1.5	1.2	0.0
125°	0.0	1.3	1.4	1.2	0.0
125.5°	0.0	1.3	1.3	1.2	0.0
126°	0.0	1.3	1.2	1.2	0.0
126.5°	0.0	1.3	1.2	1.2	0.0
127°	0.0	1.3	1.2	1.2	0.0
127.5°	0.0	1.3	1.3	1.2	0.0
128°	0.2	1.3	1.2	1.2	0.2
128.5°	0.4	1.3	1.2	1.2	0.4
129°	0.5	1.2	1.3	1.2	0.5
129.5°	0.5	1.2	1.4	1.2	0.5
130°	0.5	1.2	1.5	1.2	0.5
130.5°	0.5	1.2	1.4	1.2	0.5
131°	0.5	1.2	1.2	1.1	0.5
131.5°	0.5	1.2	1.1	1.1	0.5
132°	0.5	1.2	1.1	1.1	0.5
132.5°	0.5	1.1	1.1	1.1	0.5
133°	0.5	1.1	1.3	1.1	0.5
133.5°	0.5	1.1	1.2	1.1	0.5
134°	0.5	1.1	1.2	1.1	0.5
134.5°	0.5	1.1	1.3	1.1	0.5



TEST NUMBER: P1431939
 CATALOG NUMBER: HSLUNVMW-Cut-Off-3000K

CANDELA DISTRIBUTION (continued):

	0°	90°	180°	270°	360°
135°	0.5	1.1	1.4	1.0	0.5
135.5°	0.5	1.1	1.4	1.0	0.5
136°	0.5	1.1	1.4	1.0	0.5
136.5°	0.5	1.0	1.4	1.0	0.5
137°	0.5	1.0	1.4	1.0	0.5
137.5°	0.5	1.0	1.4	1.0	0.5
138°	0.5	1.0	1.4	1.0	0.5
138.5°	0.5	1.0	1.3	1.0	0.5
139°	0.5	1.0	1.3	1.0	0.5
139.5°	0.5	1.0	1.3	1.0	0.5
140°	0.5	1.0	1.3	1.0	0.5
140.5°	0.5	1.0	1.3	0.9	0.5
141°	0.5	0.9	1.2	0.9	0.5
141.5°	0.5	0.9	1.2	0.9	0.5
142°	0.4	0.9	1.2	0.9	0.4
142.5°	0.4	0.9	1.1	0.9	0.4
143°	0.4	0.9	1.1	0.9	0.4
143.5°	0.4	0.9	1.1	0.9	0.4
144°	0.4	0.9	1.1	0.9	0.4
144.5°	0.4	0.8	1.1	0.8	0.4
145°	0.4	0.8	1.0	0.8	0.4
145.5°	0.4	0.8	1.0	0.8	0.4
146°	0.3	0.8	0.9	0.8	0.3
146.5°	0.3	0.8	0.7	0.8	0.3
147°	0.1	0.8	0.6	0.7	0.1
147.5°	0.0	0.7	0.4	0.7	0.0
148°	0.0	0.7	0.2	0.6	0.0
148.5°	0.0	0.5	0.1	0.4	0.0
149°	0.0	0.4	0.1	0.2	0.0
149.5°	0.0	0.2	0.0	0.1	0.0
150°	0.0	0.2	0.0	0.1	0.0
150.5°	0.0	0.1	0.0	0.1	0.0
151°	0.0	0.1	0.0	0.1	0.0
151.5°	0.0	0.1	0.0	0.1	0.0
152°	0.0	0.1	0.0	0.1	0.0
152.5°	0.1	0.1	0.0	0.1	0.1
153°	0.1	0.1	0.0	0.1	0.1
153.5°	0.2	0.1	0.0	0.1	0.2
154°	0.2	0.1	0.1	0.1	0.2
154.5°	0.3	0.1	0.2	0.1	0.3
155°	0.3	0.2	0.3	0.2	0.3
155.5°	0.3	0.3	0.4	0.4	0.3
156°	0.3	0.4	0.6	0.5	0.3
156.5°	0.3	0.5	0.6	0.5	0.3
157°	0.3	0.6	0.7	0.5	0.3

TEST NUMBER: P1431939

CATALOG NUMBER: HSLUNVMW-Cut-Off-3000K

CANDELA DISTRIBUTION (continued):

	0°	90°	180°	270°	360°
157.5°	0.3	0.6	0.7	0.6	0.3
158°	0.3	0.7	0.7	0.6	0.3
158.5°	0.3	0.7	0.7	0.6	0.3
159°	0.3	0.7	0.7	0.6	0.3
159.5°	0.3	0.7	0.7	0.6	0.3
160°	0.3	0.7	0.7	0.6	0.3
160.5°	0.3	0.6	0.7	0.6	0.3
161°	0.3	0.6	0.6	0.6	0.3
161.5°	0.3	0.6	0.6	0.6	0.3
162°	0.3	0.6	0.6	0.6	0.3
162.5°	0.3	0.6	0.6	0.6	0.3
163°	0.3	0.6	0.6	0.6	0.3
163.5°	0.3	0.6	0.6	0.6	0.3
164°	0.3	0.6	0.6	0.6	0.3
164.5°	0.3	0.6	0.6	0.5	0.3
165°	0.3	0.6	0.6	0.5	0.3
165.5°	0.3	0.6	0.6	0.5	0.3
166°	0.3	0.6	0.5	0.5	0.3
166.5°	0.3	0.5	0.5	0.4	0.3
167°	0.3	0.5	0.5	0.4	0.3
167.5°	0.3	0.5	0.5	0.4	0.3
168°	0.3	0.5	0.5	0.4	0.3
168.5°	0.3	0.5	0.5	0.4	0.3
169°	0.2	0.5	0.5	0.4	0.2
169.5°	0.2	0.5	0.4	0.4	0.2
170°	0.2	0.4	0.4	0.4	0.2
170.5°	0.2	0.4	0.4	0.4	0.2
171°	0.2	0.4	0.4	0.4	0.2
171.5°	0.2	0.4	0.4	0.3	0.2
172°	0.2	0.4	0.4	0.3	0.2
172.5°	0.2	0.3	0.3	0.3	0.2
173°	0.2	0.3	0.3	0.2	0.2
173.5°	0.1	0.2	0.2	0.2	0.1
174°	0.1	0.2	0.2	0.2	0.1
174.5°	0.1	0.1	0.1	0.2	0.1
175°	0.1	0.1	0.1	0.2	0.1
175.5°	0.1	0.1	0.1	0.2	0.1
176°	0.1	0.0	0.0	0.2	0.1
176.5°	0.1	0.0	0.0	0.1	0.1
177°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
178°	0.0	0.0	0.0	0.0	0.0
178.5°	0.0	0.0	0.0	0.0	0.0
179°	0.0	0.0	0.0	0.0	0.0
179.5°	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1431939
CATALOG NUMBER: HSLUNVMW-Cut-Off-3000K

CANDELA DISTRIBUTION (continued):

	0°	90°	180°	270°	360°
180°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)